

IN THE SPECIFICATION

Please amend the specification as follows:

On page 2, line 5, please delete the word "prior".

On page 6, line 23, between the words "added" and "to" please insert the phrase --, by the adder (503)--.

On page 7, line 12, between the words "setting" and "an" please insert the phrase --as determined by the comparator (403) and NAND gate (404)--.

On page 7, line 28, after the word "function" please insert the reference numbers -- (604 and 605)--.

On page 8, line 26, after the word "function" please insert the reference number -- (803 and 804)--.

On page 8, line 35, between the words "power" and "and" please insert the phrase --, as determined by the Rx power lookup table (902)--.

On page 8, line 37, after the word "preferred" please insert the phrase --embodiment using the saturating accumulator (903)--.

IN THE CLAIMS

Please cancel, without prejudice, claims 1-4 and 12.

Please amend claims 5 and 7-11 to read as follows:

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2 5. (amended) A method for limiting transmit power of a radio
operating in a radio communications system, the radio communications
[environment] system comprising [a] at least one base station that transmits
4 signals to the radio including power control commands, the radio comprising
a variable gain amplifier and a maximum gain setting, the method
6 comprising the steps of:

8 determining an open loop power control value in response to a signal
received from the at least one base station;

10 determining a gain adjust signal in response to the transmit power
control commands;

12 combining the open loop power control value and the gain adjust
signal to produce a summation signal;

14 comparing the summation signal to the maximum gain setting [to the
summation signal];

16 if the summation signal is greater than or equal to the maximum gain
setting, adjusting the variable gain amplifier in response to the maximum
gain setting; and

18 if the summation signal is less than the maximum gain setting,
adjusting the variable gain amplifier in response to the summation signal.

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- 3.7. (amended) The method of claim ² wherein the step of adjusting the
- 2 maximum gain setting further includes the steps of:
- 4 the variable gain amplifier transmitting a signal[with the variable gain
- 6 amplifier];
- 8 detecting a power value of the transmitted signal;
- scaling the power value to produce a scaled power signal;
- subtracting the maximum gain setting from the scaled power signal to
- produce a difference signal; and
- adding the difference signal to the maximum gain setting.

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8. (amended) A method for limiting transmit power of a radio operating in a cellular environment, the cellular environment comprising a plurality of cells that transmit power control commands to the radio, the radio comprising a variable gain amplifier and a maximum gain setting, the method comprising the steps of:

determining an open loop power control value in response to a signal received from at least one cell of the plurality of cells;

determining a gain adjust signal in response to the transmit power control commands;

combining the open loop power control value and the gain adjust signal to produce a summation signal;

adjusting the maximum gain setting in response to a temperature of the variable gain amplifier;

comparing the adjusted maximum gain setting to the summation signal;

if the summation signal is greater than or equal to the maximum gain setting, prohibiting the gain adjust signal from changing in response to the transmit power commands;

if the summation signal is greater than or equal to the maximum gain setting, adjusting the variable gain amplifier in response to the maximum gain setting; and

if the summation signal is less than the maximum gain setting, adjusting the variable gain amplifier in response to the summation signal.

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9. (amended) A method for limiting transmit power of a radio
2 operating in a cellular environment, the cellular environment comprising a
plurality of cells that transmit power control commands to the radio, the
4 radio comprising a variable gain amplifier, a maximum gain setting, and a
power limiting accumulator, the method comprising the steps of:
6 the variable gain amplifier transmitting a signal[with the variable gain
amplifier];
8 determining a gain adjust signal in response to the transmit power
control commands;
10 detecting a power value of the transmitted signal;
digitizing the power value;
12 comparing the digitized power value to the maximum gain setting;
if the digitized power value is greater than the maximum gain setting,
14 decreasing the gain of the variable gain amplifier; and
if the digitized power value is greater than the maximum gain setting,
16 prohibiting the gain adjust signal from changing in response to the transmit
power commands.

Fig 7
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10. (amended) A method for limiting transmit power of a radio
operating in a cellular environment, the cellular environment comprising a
plurality of cells that transmit power control commands to the radio, the
radio comprising a variable gain amplifier, a maximum gain setting, and a
power control command accumulator that generates a gain adjust signal, the
method comprising the steps of:
the variable gain amplifier transmitting a signal[with the variable gain
amplifier];
determining [a] the gain adjust signal in response to the ^{transmitted} ~~transmit~~
power control commands;
detecting a power value of the transmitted signal;
digitizing the power value;
comparing the digitized power value to the maximum gain setting;
if the digitized power value is greater than the maximum gain setting,
decreasing the gain adjust signal by a predetermined amount for every
predetermined unit of time until the gain adjust signal is less than the
maximum gain setting; and
if the digitized power value is less than or equal to the maximum gain
setting, varying the gain of the variable gain amplifier in response to the gain
adjust signal.

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Fig 8

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11. (amended) A method for limiting transmit power of a radio operating in a cellular environment, the cellular environment comprising a plurality of cells that transmit power control commands to the radio, the radio comprising a variable gain amplifier, a maximum gain setting, and a power limiting accumulator, the method comprising the steps of:

4 the variable gain amplifier transmitting a signal[with the variable gain amplifier];

6 determining a gain adjust signal in response to the transmit power control commands;

8 detecting a power value of the transmitted signal;

10 digitizing the power value;

12 determining a difference between the digitized power value and the maximum gain setting;

14 integrating the difference to generate a gain control signal, the gain control signal being limited to a predetermined range;

16 adjusting the variable gain amplifier with the gain control signal;

18 and if the gain control signal is less than a predetermined value, prohibiting the gain adjust signal from changing the variable gain amplifier in response to the transmit power commands.

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